

407A

Medium-Mu Twin Triode

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater Characteristics and Ratings:

Heater-section arrangement	Series	Parallel	
Voltage (AC or DC)	40.0 $\pm$ 2.0	20.0 $\pm$ 1.0	volts
Current	0.050 ^a	0.100 ^b	amp
Peak heater-cathode voltage (Each unit):			
Heater negative with respect to cathode.	100 max.		volts
Heater positive with respect to cathode.	100 max.		volts

Direct Interelectrode Capacitances:^c

Grid to plate (Each unit)	1.1	pf
Grid to cathode, internal shield, and heater (Each unit).	2.2	pf
Plate to cathode, internal shield, and heater (Each unit).	1.0	pf
Plate to plate.	0.1 max.	pf

Characteristics, Class A₁ Amplifier (Each Unit):

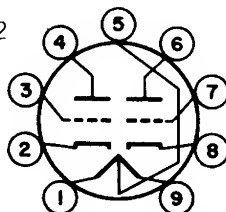
Plate Supply Voltage.	150	volts
Cathode Resistor.	240	ohms
Amplification Factor.	35	
Plate Resistance (Approx.).	6350	ohms
Transconductance.	5500	μ mhos
Plate Current	8.2	ma
Grid Voltage for maximum plate μ a =45	-10	volts

Mechanical:

Operating Position.	Any
Type of Cathodes.	Coated Unipotential
Maximum Overall Length.	1-3/4"
Maximum Seated Length.	1-1/2"
Length, Base Seat to Bulb Top (Excluding tip)	1-1/8" $\pm$ 3/32"
Diameter.	0.750" to 0.875"
Dimensional Outline	See <i>General Section</i>
Bulb.	T6-1/2
Base.	Small-Button Noval 9-Pin (JEDEC No.E9-1)

BOTTOM VIEW

Pins 1&5 - Heater of
Unit No.2
Pin 2 - Cathode of
Unit No.2
Pin 3 - Grid of
Unit No.2
Pin 4 - Plate of
Unit No.2
Pin 5 - Heater Tap,
Internal
Shield



Pin 6 - Plate of
Unit No.1
Pin 7 - Grid of
Unit No.1
Pin 8 - Cathode of
Unit No.1
Pins 9&5 - Heater of
Unit No.1



RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA
4-63

407A

AMPLIFIER — Class A₁

Values are for Each Unit

Maximum Ratings, Absolute-Maximum Values:

PLATE VOLTAGE.	330 max.	volts
GRID VOLTAGE:		
Negative-bias value.	55 max.	volts
Positive-bias value.	0 max.	volts
CATHODE CURRENT.	18 max.	ma
GRID CURRENT	3 max.	ma
PLATE DISSIPATION.	1.35 max.	watts

Maximum Circuit Values:

Grid-Circuit Resistance.	0.5 max.	megohm
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^a At heater volts = 40.0.

^b At heater volts = 20.0.

^c Without external shield.

